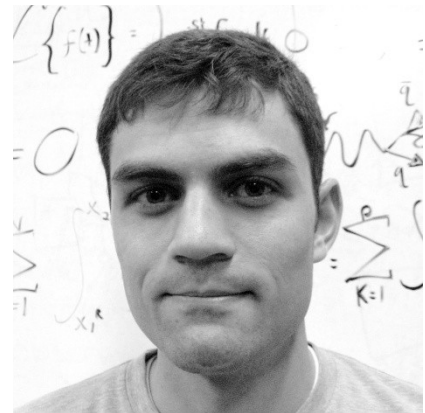


**Project: Embedded Active Vibration Cancellation of a Piston-Driven Cryocooler for Nuclear Spectroscopy Applications**    Mentor: David Mascarenas

**William Johnson**

William Johnson finished his B.S. in Mechanical Engineering at Brigham Young University this past April and will be starting his Master's Degree in Mechanical Engineering at Brigham Young University in the fall. He has spent the past two summers working at Los Alamos National Laboratories for W-13, an advanced engineering analysis group, helping to develop and optimize fracture models in Abaqus. He recently realized that he hasn't met a sport he doesn't like, but his favorites are basketball and soccer. He served as a volunteer representative for the Church of Jesus Christ of Latter-Day Saints in Hawaii and the Republic of Kiribati for two years, and speaks fluent Kiribati.



**Rose Long**

Rose Long recently graduated from the University of Vermont with a BS in Mechanical Engineering. She was an active member of the Cycling Team as well as Tau Beta Pi and Society of Women Engineers. Her interest in dynamics and control systems began while working at Greensea Inc., a small firm specializing in control systems for remote underwater vehicles. She has also developed a testing protocol and device for lower limb strength while working in biomechanics testing. In the future, Rose would like to pursue graduate studies and work in research and development.



**Mark Nelson**

Mark Nelson is a senior in the Honors College at Oklahoma State University, where he is pursuing degrees in Aerospace Engineering, Mechanical Engineering, and Russian Language and Literature. He works as a tutor for the Athletic Department, runs for the varsity Track and Field team, and is a senior photographer for the Daily O'Collegian. Last summer, Mark completed a mechanical engineering internship at a textile manufacturing facility in Khujand, Tajikistan. After graduation, he plans to study Nuclear Engineering in graduate school. In his free time he reads too much, speculates too much, and plays the piano.

